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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 09/750,100 | 12/29/2000 | David E. Baraff | 022972-00005 | 6391 |
| 20350 | 7590 | 06/19/2006 | EXAMINER | |
| TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834 | | | STEVENS, THOMAS H | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2123 | |

DATE MAILED: 06/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary | Application No. | Applicant(s) |
|------------------------------|-------------------|---------------|
| | 09/750,100 | BARAFF ET AL. |
| | Examiner | Art Unit |
| | Thomas H. Stevens | 2123 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 March 2006.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____ .

DETAILED ACTION

1. Claims 1-20 were examined.

Section I: Non-Final Rejection

2. Applicant should refer to these issues as examples and initiate all the necessary corrections to eliminate the claim objects. The claims have been treated on their merits as best understood by the examiner.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. The “predetermined threshold” and “threshold” limitations are, verbatim, silent within the specification.

Section II: Allowable Subject Matter

5. Claims 1-20 are allowable.
6. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

7. The following is an examiner's statement of reasons for allowance:

While US Patent 6,426,745 teaches (claim 1) method of simulating relative motion of objects; Chadwick teaches providing a of a display; providing at least one dynamic object is another element of the threshold is simulated using a physically-based numerical technique; (claims 1, 13 and 17 "means for", 18 "code") object exceeds a predetermined threshold such that the motion of the at least one dynamic object is influenced differently by the motion of the kinematic object when the motion of the kinematic object exceeds the predetermined threshold; and displaying the elements of the threshold display, including associated motions of said elements; (claim 13, 17 "means for" , 18 "code", 19) receive information specifying motion for a kinematic object; compute motion for a dynamic object based upon the motion of the kinematic object, wherein the motion of the dynamic object is specified using a physically-based numerical technique; Popovic teaches (claim 19) a computer computer-implemented method of simulating relative motion of objects in a computer animation system comprising: a processor; a display; wherein the processor is configured to receiving information, none of these references, taken either alone or in combination, with the prior art of record disclose;

(claim 1) "providing motion of a kinematic object, where the kinematic object is an element... associated with said kinematic object, where said at least one dynamic object... display and where motion of said at least one dynamic object is influenced by the motion of the kinematic object, wherein the motion of said at least one dynamic

object... manipulating the motion of said at least one dynamic object... in response to the motion of the kinematic object when the motion of the kinematic,"

(claims 13, 17 and 18 "code" , 19) "compute motion for a dynamic object based upon the motion of the kinematic object, wherein the motion of the dynamic object is specified using a physically-based numerical technique,"

(claim 13, 17 "means for"18 "code", 19) "manipulate the motion of the dynamic object in response to the motion of the kinematic object when the motion...such that the motion of the dynamic object is influenced differently by the motion of the kinematic object,"

in combination with the remaining elements and features of the claimed invention. It is for these reasons that the applicants' invention defines over the prior art of record.

Correspondence Information

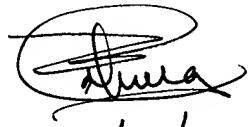
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715, Monday-Friday (8:00 am- 4:30 pm EST).

If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. Paul Rodriguez 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

May 27, 2006

TS



6/12/06